



OGMCOAL DNR &lt;ogmcoal@utah.gov&gt;

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## Emery Deep Water Quality Wells

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Steve Christensen <stevechristensen@utah.gov>

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To: "Gefferth, John" <jgefferth@cecinc.com>, Kit Pappas <kit@emerytelcom.net>, OGMCOAL DNR <ogmcoal@utah.gov>

Good afternoon,

I apologize for not getting you this e-mail sooner. I wanted to follow up on our conversation last week relative to ground-water monitoring and the forthcoming Emery #2 Mine.

Based on my rudimentary understanding of where the initial mining will take place in Emery #2, I would strongly recommend that you re-initiate ground water monitoring activities at the following locations:

- 1) **Monitoring well AA:** There are four completions in this well- Bluegate shale (AA-B), Upper Ferron Sandstone (AA-U), Middle Ferron Sandstone (AA-M) and Lower Ferron Sandstone (AA-L). The well has not been actively monitored since 2012. Based on historical data, it appears that all but one of the wells are capable of being monitored at this point. The exception is monitoring well AA-M which has been reported as being impacted with 'oil'. Again, it would be advisable to rehabilitate these wells and begin collecting water quality and water quantity data as soon as possible.
- 2) **Monitoring well WW1:** This monitoring well has data going back to the early 90's. Monitoring activity at this well was discontinued in 2012. It's completed in the Lower Ferron Sandstone . I would recommend picking this well up again for quality an quantity monitoring.
- 3) **RDA-5:** This monitoring well is in the Quitcupah Creek Alluvium. It was last sampled in 2011. I would recommend picking this well up again for quality and quantity monitoring.

Based on what I know about the short-term mining plans, these wells would be beneficial from a baseline and operational monitoring stand-point.

John- We briefly discussed monitoring wells USGS 2-1 and USGS 2-3. Based on a review of our water monitoring database, it doesn't appear that data from these wells have ever been submitted to the Division. They're listed as "abandoned". I'm not sure what that means.

Regards,  
Steve

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Steve Christensen  
Utah Division of Oil, Gas and Mining  
1594 W North Temple, Suite 1210  
Salt Lake City, Utah 84116  
(801) 538-5350  
[stevechristensen@utah.gov](mailto:stevechristensen@utah.gov)